

## PATENT ABSTRACTS OF JAPAN

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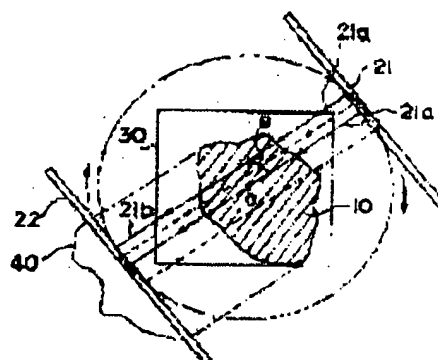
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## (54) RECONSTITUTING METHOD FOR OPTICAL COMPUTED TOMOGRAPHY

(57)Abstract:

**PROBLEM TO BE SOLVED:** To improve the resolution of tomography by applying weight, which gradually increases toward the downstream side along the optical path of light to be transmitted through a subject, to the respective pixels of the tomograph and executing inverse projective operation for reconstitution.

**SOLUTION:** A light beam 21a emitted from a light source 21 is made incident to a subject 10 arranged between the light source 21 and a detector 22, and one-dimensional intensity distribution 40 of emitted light 21b from the subject 10 inside a tomographic plane is detected. Rotation is performed in arrow direction with a rotational center O as a center and this operation is repeated so that the intensity distribution 40 in all the directions can be provided. The gap between the light source 21 and the detector 22 is equally divided into 10 areas, for example, the weight which gradually decreases toward the side of the light source 21 and gradually increases toward the side of the detector 22 is applied to the respective pixels on memories inside a reconstitution area 30, and inverse projection in the arrow direction is executed concerning all the data. The tomograph is reconstituted while changing the weight for each angle. Thus, the tomograph, of which the resolution is improved rather than the case of performing reconstitution without applying weight, can be provided.



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